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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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EXAMINER

THLANG, E

ART UNIT	PAPER NUMBER
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2781

17

DATE MAILED:

10/22/98

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
08/646,484

Applicant(s)
Moon, Billy G.

Examiner
Eric S. Thlang

Group Art Unit
2781



☒ Responsive to communication(s) filed on Aug 12, 1998

☒ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 11-21 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☒ Claim(s) 18-21 is/are allowed.

☒ Claim(s) 11-15 is/are rejected.

☒ Claim(s) 16 and 17 is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Response to Amendment

1. This Office Action is responsive to the amendment filed August 12, 1998.
2. Claims 11-21 are still pending for reexamination.

Allowable Subject Matter

3. Independent claims 18-21 are still maintain allowable over the prior art of record.
4. Applicant's arguments filed August 12, 1998 above, with respect to claims 11-21 have been fully considered but they are still not persuasive.
5. The text of those sections of Title 35, U.S. code not included in this office action can be found in a prior office action.

Claim Rejections - 35 U.S.C. § 102

6. Claims 11-13 are rejected under 35 U.S.C. § 102(b) as being anticipated by Klingler et al. (U.S. 5,732,625).
7. As to claims 11, Klingler et al. teach a UART capable of operating in both full duplex and half duplex mode for providing single channel communications [see abstract and col. 3, lines 3-24], comprising a transmitter for transmitting signals on a single communications channel [e.g., see Fig. 1, elements# 6, 8]; a receiver for receiving signals on the single communications channel [Fig. 1, elements# 7, 9];

processing means for indicating whether the UART is operating in a full duplex mode of operating [see col. 1, lines 31-56]; and receiver control circuitry for disabling the receiver in response to the indication of a full duplex mode of operation by the processing means [col. 5, lines 1-5].

8. As to claim 12, Klingler et al. teach the means for storing data to be transmitted by the transmitter, the means for storing generating a signal indicating when data for transmission is contained therein [see col. 4, lines 36-49].

9. As to claim 13, Klingler et al. teach the receiver control circuitry further disables the receiver in response to the signal indicating data for transmission in the means for storing [see col. 4, lines 36-49].

Claim Rejections - 35 U.S.C. § 103

10. Claims 14-17 are rejected under 35 U.S.C. § 103 as being unpatentable over Klingler et al. (U.S. 5,732,625) in view of Hamilton (U.S. 5,175,766).

11. Hamilton (U.S. 5,175,766) was cited in the last office action.

12. As to claim 14, Klingler et al. do not explicitly teach a data store for queuing (signaling) data to be transmitted by the transmitter and a FIFO for passing data between the data store and the transmitter.

13. Hamilton (5175766) teaches a data store for queuing (signaling) data to be transmitted by the transmitter [see col. 3, lines 53-68] and a FIFO for passing data between the data store and the transmitter [col. 26, lines 60-68; col. 27, lines 1-9].

14. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Hamilton within the system of Klingler because the object of Hamilton's teachings is to improve the quality of data transmission, and to provide a multichannel encryption unit that is compatible with another plurality of encryption schemes.

15. As to claim 15, Hamilton teaches the receiver control circuitry disables the receiver in response to signals indicating data stored within the data store and the FIFO [see col. 29, lines 47-68; col. 30, lines 19-29].

16. Claims 16-17 are objected to as being dependent upon a rejected base claims, it would be allowable if written in an independent form including all of the limitations of the base claim and any intervening claims.

Applicants Argument

17. In the remarks, Applicants argued in substance that Klingler did not disclose (1) the processing means for indicating whether the UART is operating in a full duplex mode of operation. (2) Klingler did not disclose the processing mean which is capable of determining whether a UART is operating in a full duplex mode of operation. (3) the processing means for detecting whether a UART is operating in a full duplex mode of operation. (4) the referenced does not disclose receiver control

circuitry which disables a receiver within a UART in response to an indication of a full duplex mode of operation by the previously described processing means. (5) Klingler did not disclose the storage area comprise an area for storing data prior to transmission by a transmitter; and memory storage means generates any signal indicating that there is data to be transmitted.

Examiner Response

18. Examiner respectfully traverses Applicants' remarks. As to point (1), Klingler provided the processing means for indicating whether the UART is operating in a full duplex mode of operation [e.g., see abstract; col. 3, lines 3-24]. As to point (2), Klingler disclosed the processing mean which is capable of determining whether a UART is operating in a full duplex mode of operation [see col. 3, lines 3-24]. As to point (3), Klingler disclosed the processing means for detecting whether a UART is operating in a full duplex mode of operation [see col. 1, lines 59-67; col. 3, lines 3-25]. As to point (4), the referenced disclosed the receiver control circuitry which disables a receiver within a UART in response to an indication of a full duplex mode of operation by the previously described processing means [see col. 5, lines 1-5]. As to point (5), Klingler disclosed the storage area comprise an area for storing data prior to transmission by a transmitter [see 4, lines 36-49]; and memory storage means generates any signal indicating that there is data to be transmitted [see col. 4, lines 36-49; col. 6, lines 13-40].

19. The prior art rejection with respect to claims 11-21 filed forth in the last office action is maintained and incorporated by reference.

Conclusion

20. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

22.. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric S. Thlang whose telephone number is (703) 305-4004. The examiner can normally be reached on Monday - Thursday from 7:00 a.m. to 4:30 p.m. The examiner can also be reached on alternate Fridays during the same hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh, can be reached on (703) 305-9648. The fax phone number for this Group is (703) 308-9051 or (703) 308-9052.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [Ayza.Sheikh@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Est
EST

October 20, 1998

Ayza Sheikh
AYAZ R. SHEIKH
SUPERVISORY PATENT EXAMINER
GROUP 2700